

Applications:

Marine Science Seabed Mapping Environmental Monitoring As Found / As Left Survey's

OE14-408/408E

UNDERWATER DIGITAL STILLS CAMERA

10 MP Resolution

:1 Optical Zoon

hromatic Doublet Lens

i-state, RS232, RS485, Ethernet Control

The OE14-408/E digital stills camera has been designed primarily for use in subsea environments and is ideally suited to seabed survey, marine science and environmental monitoring applications.

The OE14-408/E digital stills camera has a custom engineered, water corrected optical arrangement which includes an achromatic doublet lens with a 5:1 optical zoom ratio, ensuring captured images are not affected by aberrations or distortions. The OE14-408/E is the perfect choice for high resolution stills imaging tasks.

Camera functions can be operated via a single wire (tri-state) voltage control system or by using Imenco's proprietary command protocol and GUI (Graphical User Interface) over an RS485 or RS232 serial link. Captured images can be uploaded once the camera is retrieved to the surface via the USB 2 link or alternatively via an ad-hoc wireless network.

Alternatively, the OE14-408E (Ethernet configuration) allows for control of camera functions, image capture and image download via a single 10/100 Base-TX connection.

The OE14-408/E can be used in conjunction with the dedicated OE11-442 flashgun, which has a through lens flash metering feature for accurate exposure control.

Remote or sequential image trigger options are also available.



Contact us for additional information or to get a quotation. Send an e-mail to camera.sales.uk@imenco.com or find personal contact info on our website.

imenco.com

BY IMENCO OE14-408/408E

TECHNICAL SPECIFICATIONS

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Performance		
Image Resolution	User selectable, from 10Mp (3648 x 2736) to VGA (640 x 480)	
Video Resolution	Framing video 360 TVL/PH	
Light Sensitivity	Manual or Automatic, ISO 80 to ISO 3200	
Minimum Scene Illumination	100mV video @ 510 x10 ⁻³ lux faceplate	
Signal to Noise Ratio	>45dB (weighted)	
Image Storage	16 GB internal memory, estimated storage capacities as follows:	
	3648 x 2736 – RAW resolution – 1100 images	
	$3648 \times 2/36$ – "L" Fine resolution – 6000 images 640 × 480 – "S" Normal resolution – 123 000 images	
Electrical	040 x 480 - 3 Norman esolution - 123,	Joo mages
Scan Standards	625 lines, 50 Hz PAL or 525 lines, 60 Hz NTSC	
Sensor Elements	1/1.7" High Density CCD Sensor, 10M Pixels	
Video Output	PAL or NTSC composite video	
Power Input	16 – 24 VDC, 450mA (max) without flashgun connected	
	OE14-408	OE14-408E
Control and Image Upload	Tri-state, RS232, RS485	TCP/IP and DHCP compatible
	USB 2	10/100 Base-Tx Ethernet wiring
Ontical	Wi-Fi	IEEE 802.3 Compliant
lons	6.1 mm to 30.5mm, (35mm equivalent format to 28-140mm) F2.8 to F4.5	
	5:1 optical zoom	
AOV in water	Horizontal: 45° (Wide)	
	Vertical: 35° (Wide)	
luis Control		
Mechanical	Automatic or manual (front port to infinity)	
Dimensions	OF14-408	OF14-408F
	Diameter: 101mm	Diameter: 101mm
	Length: 239.1mm (excl. connector)	Length: 345mm (excl. connector)
Weight	In air: 4.0 Kg, In water: 2.1Kg	In air: 5.0 Kg, In water: 2.2Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48	Titanium alloy 6AL/4V ASTM B3 48
Connector	Camera: Burton 5506-1508	Camera: Subconn DBH13M
	Flash: Burton 5506-1608	Flash: Burton 5506-1608
Foreigner	Image opioad: Burton 5507-0906	
Environmental	4500 many (athen double and double and	
	4500 msw (other depth rated housing options are available)	
Charle		
SHOCK	зов реак acceleration, 25ms nait sine duration, on all three axes	
Electromagnetic Compatibility	BS EN 61000-6-3: 2007 Emission and BS EN 61000-6-1: 2007 Immunity	

